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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/758,370	01/15/2004	David M. Barger	MS306435.1/MSFTP504US	5418

27195	7590	05/07/2007
AMIN. TUROCY & CALVIN, LLP		
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EXAMINER
COLAN, GIOVANNA B

ART UNIT	PAPER NUMBER
2162	

MAIL DATE	DELIVERY MODE
05/07/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Interview Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/758,370	BARGERON ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Giovanna Colan	2162	

All participants (applicant, applicant's representative, PTO personnel):

- (1) Giovanna Colan. (3) Francis L. Dunn.  
 (2) Sana Al-Hashemi. (4) \_\_\_\_.

Date of Interview: 02 May 2007.

Type: a) ☒ Telephonic b) ☐ Video Conference  
 c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.  
 If Yes, brief description: \_\_\_\_\_.

Claim(s) discussed: Claims 1, 24.

Identification of prior art discussed: Zhao, Bresler.


Agreement with respect to the claims f) ☐ was reached. g) ☒ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: During the interview, the examiner clarified the rejection of the limitation "search is performed over..." and "the word-level topological properties comprise at..." in claim 1, as requested by applicant. Applicant also discussed proposed amendments. No agreement was reached.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

  
 \_\_\_\_\_  
 Examiner's signature, if required

## Summary of Record of Interview Requirements

### Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

### Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

#### Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

#### 37 CFR §1.2 Business to be transacted in writing.

All business with the Patent and Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,  
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

### Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

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**FACSIMILE TRANSMISSION**

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**DATE:** April 26, 2007

**TO:** Giovanna B. Colan – United States Patent and Trademark Office

**FAX:** 571-273-2752

**FROM:** Francis L. Dunn, Jr.

**RE:** DRAFT – MEETING AGENDA

In re patent application of:

Applicant(s): David M. Bargerion *et al.*

Examiner: Giovanna B. Colan

Serial No: 10/758,370

Art Unit: 2162

Filing Date: January 15, 2004

Title: IMAGE-BASED DOCUMENT INDEXING AND RETRIEVAL

NUMBER OF PAGES TO FOLLOW: 3

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To Examiner Colan:

Thank you for offering the opportunity to discuss this matter. I will contact you soon to schedule an interview in this matter. Below are proposed items of discussion for the interview.

There are at least three issues that I would like to get your input on to overcome the rejections under section 103:

(1) With regard to the section 103 rejections, clarification is requested as to the grounds for these rejections, such as with regard to claim 1, wherein it is claimed, in part, that a “search is performed over word-level topological properties of generated images,” and “the word-level topological properties comprise at least respective widths of words on the physical document.”

(2) With further regard to the section 103 rejection of independent claim 24, a proposed amendment to independent claim 24 to further emphasize distinctive aspects of the claimed subject matter, such as each signature being a hash table and identifying a generated image that matches a captured image using the respective hash tables, as detailed in proposed claim 24, below.

(3) With further regard to the section 103 rejection of independent claim 25, a proposed amendment to independent claim 25 to further emphasize distinctive aspects of the claimed subject matter, such as each signature being a hash table that contains a plurality of table locations where a respective value corresponding to a respective portion of a particular image is entered into a respective table location for each portion of the particular image, as detailed in proposed claim 25, below.

If you have any other suggestions or ideas, I would be glad to discuss them as well. I look forward to speaking with you. Thank you again for your time and consideration.

Regards,  
Francis

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DRAFT – PROPOSED CLAIM

24. (Currently amended) A method that facilitates indexing and/or retrieval of a document, comprising:

generating a plurality of images of electronic documents, at least one of the images of electronic documents corresponding to a printed document;  
capturing an image of a printed document after such document has been printed;  
receiving a query requesting retrieval of an electronic document corresponding to the image of the printed document;

generating one or more signatures corresponding to at least a portion of one or more of the generated images, the signatures generated at least in part upon word-layout within the image(s), the one or more signatures is a hash table that contains a plurality of table locations where a respective value corresponding to a respective segment of the generated image is entered into a respective table location for each segment of the generated image;

generating a signature corresponding to at least a portion of the captured image, the signature is generated based at least in part upon word-layout within the captured image, the signature is a hash table that contains a plurality of table locations where a respective value corresponding to a respective segment of the captured image is entered into a respective table location for each segment of the captured image; [[and]]

comparing the one or more signatures corresponding to the one or more generated images to the signature corresponding to the captured image; and

identifying a generated image that has a highest number of table locations that have respective values that match values in corresponding table locations associated with the captured image.

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25. (Currently amended) A method that facilitates indexing and/or retrieval of a document, comprising:

receiving a captured image of at least a portion of a document; [[and]]

searching at least one data store for an electronic document corresponding to the captured image, the search performed *via* comparing topological word properties within the captured image with topological word properties of generated images corresponding to a plurality of electronic documents, the respective topological word properties comprising at least width of each word;

generating signatures corresponding to the generated images, each of the signatures is a hash table that contains a plurality of table locations where a respective value corresponding to a respective portion of a particular generated image is entered into a respective table location for each portion of the particular generated image; and

generating a signature corresponding to the captured image of the document, the signature is a hash table that contains a plurality of table locations where a respective value corresponding to a respective portion of the captured image is entered into a respective table location for each portion of the captured image.